

Exhibit 14.22

United States' Motion to Enter Consent Decree,
United States v. Alden Leeds, Inc. et al., Civil Action No. 22-7326 (D.N.J.)

EXHIBIT A-65

Appendix A to OxyChem's Comments in Opposition to Proposed Consent Decree,
United States v. Alden Leeds, Inc., et al., Civil Action No. 2:22-cv-07326 (D.N.J.)



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Analysis Report

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

KEMRON Environmental Services
1359A Ellsworth Industrial Bly
Atlanta GA 30318

February 01, 2012

Project: Riverside Avenue

Submittal Date: 01/11/2012

Group Number: 1284638

SDG: RAK02

PO Number: SF1838-018

State of Sample Origin: NJ

Client Sample Description

Frac Tank 1-Bldg 7 Grab Water Sample
Frac Tank 2-Bldg 7 Grab Water Sample
Frac Tank Bldg 15 Composite Water Sample
1st floor Bldg 7 Floor Sweeps Composite Soil
AST Composite Soil Sample
3rd floor Bldg 7 Floor Sweeps Composite Soil
UST soil Composite Sample
Bldg 12-5th floor pigment/floor sweep Composite

Lancaster Labs (LLI)

6519691
6519692
6519693
6519694
6519695
6519696
6519697
6519698

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC
COPY TO
ELECTRONIC
COPY TO

KEMRON Environmental Services
Data Package Group

Attn: Janelle Murphy

BBA000210

ALCD-PUBCOM_0007631



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Questions? Contact your Client Services Representative
Loran A Carter at (717) 656-2300 Ext. 1375

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Charles J. Neslund". The signature is fluid and cursive, with the first and last names being more prominent.

Charles J. Neslund
Manager



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Page 1 of 2

Sample Description: Frac Tank 1-Bldg 7 Grab Water Sample
Riverside Avenue

LLI Sample # WW 6519691
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 10:45 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

FT1RA SDG#: RAK02-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
Dioxins/Furans						
	SW-846 8290A		pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	< 20.0	20.0	3.00	1
10915	12378-PeCDD	40321-76-4	< 100	100	3.00	1
10915	123478-HxCDD	39227-28-6	< 100	100	3.90	1
10915	123678-HxCDD	57653-85-7	< 100	100	4.13	1
10915	123789-HxCDD	19408-74-3	< 100	100	3.41	1
10915	1234678-HpCDD	35822-46-9	777	100	4.74	1
			B			
10915	OCDD	3268-87-9	15,600	200	5.24	1
			B			
10915	2378-TCDF	51207-31-9	< 20.0	20.0	3.26	1
10915	12378-PeCDF	57117-41-6	< 100	100	1.99	1
10915	23478-PeCDF	57117-31-4	< 100	100	1.92	1
10915	123478-HxCDF	70648-26-9	< 100	100	2.86	1
10915	123678-HxCDF	57117-44-9	< 100	100	2.63	1
10915	123789-HxCDF	72918-21-9	< 100	100	2.87	1
10915	234678-HxCDF	60851-34-5	< 100	100	2.59	1
10915	1234678-HpCDF	67562-39-4	< 100	100	1.93	1
10915	1234789-HpCDF	55673-89-7	< 100	100	2.67	1
10915	OCDF	39001-02-0	278	200	2.83	1
			B			

Reporting limits were raised due to interference from the sample matrix.

Total Homologues						
	SW-846 8290A		pg/l	pg/l	pg/l	
10915	Total TCDD	41903-57-5	< 20.0	20.0	3.00	1
10915	Total PeCDD	35088-22-9	< 100	100	3.00	1
10915	Total HxCDD	34465-46-8	174	100	3.79	1
			Q			
10915	Total HpCDD	37871-00-4	1,290	100	4.74	1
10915	Total PCDD	n.a.	17,200			1
			BQ			
10915	Total TCDF	55722-27-5	32.5	20.0	3.26	1
			Q			
10915	Total PeCDF	30402-15-4	< 100	100	1.95	1
10915	Total HxCDF	55684-94-1	162	100	2.73	1
			Q			
10915	Total HpCDF	38998-75-3	368	100	2.25	1
			Q			
10915	Total PCDF	n.a.	925			1
			BQ			
10915	Total PCDD/PCDF	n.a.	18,100			1
			BQ			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	60	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	66	24 - 169

*-This limit was used in the evaluation of the final result



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Page 2 of 2

Sample Description: Frac Tank 1-Bldg 7 Grab Water Sample
Riverside Avenue

LLI Sample # WW 6519691
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 10:45 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

FT1RA SDG#: RAK02-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
Labeled Compounds						
	%Rec	Windows				
13C12-12378-PeCDF	82	24 - 185				
13C12-23478-PeCDF	77	21 - 178				
13C12-123478-HxCDF	60	26 - 152				
13C12-123678-HxCDF	63	26 - 123				
13C12-234678-HxCDF	63	28 - 136				
13C12-123789-HxCDF	65	29 - 147				
13C12-1234678-HpCDF	76	28 - 143				
13C12-1234789-HpCDF	65	26 - 138				
13C12-OCDF	58	17 - 157				

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

J Estimated concentration between Estimated Detection Limit and Minimum Level

E Exceeds calibration range

C Confirmed quantitation on secondary GC column

Q EMPC - Estimated Maximum Possible Concentration

F Interference is present

S Saturation of detection signal

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	Dioxins/Furans in Water - HRMS	SW-846 8290A	1	12026002	01/27/2012 20:33	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A	3	12026002	01/26/2012 06:40	Ginelle L Haines	1

*-This limit was used in the evaluation of the final result

ALCD-PUBCOM_0007634



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Page 1 of 2

Sample Description: Frac Tank 2-Bldg 7 Grab Water Sample
Riverside Avenue

LLI Sample # WW 6519692
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 11:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

FT2RA SDG#: RAK02-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	< 200	200	43.2	1
10915	12378-PeCDD	40321-76-4	< 1,000	1,000	56.1	1
10915	123478-HxCDD	39227-28-6	< 1,000	1,000	77.7	1
10915	123678-HxCDD	57653-85-7	16,600	B 1,000	81.7	1
10915	123789-HxCDD	19408-74-3	< 1,000	1,000	79.8	1
10915	1234678-HpCDD	35822-46-9	1,210,000	1,000	342	1
			B			
10915	OCDD	3268-87-9	20,400,000	2,000	215	1
			EB			
10915	2378-TCDF	51207-31-9	< 200	200	42.9	1
10915	12378-PeCDF	57117-41-6	< 1,000	1,000	28.1	1
10915	23478-PeCDF	57117-31-4	< 1,000	1,000	24.6	1
10915	123478-HxCDF	70648-26-9	< 1,000	1,000	56.9	1
10915	123678-HxCDF	57117-44-9	< 1,000	1,000	58.5	1
10915	123789-HxCDF	72918-21-9	< 1,000	1,000	47.3	1
10915	234678-HxCDF	60851-34-5	< 1,000	1,000	48.8	1
10915	1234678-HpCDF	67562-39-4	57,800	B 1,000	105	1
10915	1234789-HpCDF	55673-89-7	5,100	B 1,000	117	1
10915	OCDF	39001-02-0	409,000	2,000	84.8	1
			B			

Reporting limits were raised due to interference from the sample matrix.

Total Homologues		SW-846 8290A	pg/l	pg/l	pg/l	
10915	Total TCDD	41903-57-5	1,060	Q 200	43.2	1
10915	Total PeCDD	35088-22-9	2,140	Q 1,000	56.1	1
10915	Total HxCDD	34465-46-8	34,800	Q 1,000	79.7	1
10915	Total HpCDD	37871-00-4	1,770,000	1,000	342	1
			Q			
10915	Total PCDD	n.a.	22,200,000			1
			BQ			
10915	Total TCDF	55722-27-5	1,580	Q 200	42.9	1
10915	Total PeCDF	30402-15-4	1,310	Q 1,000	26.3	1
10915	Total HxCDF	55684-94-1	28,300	Q 1,000	52.3	1
10915	Total HpCDF	38998-75-3	295,000	1,000	111	1
10915	Total PCDF	n.a.	735,000			1
			BQ			
10915	Total PCDD/PCDF	n.a.	22,900,000			1
			BQ			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	46	25 - 181
13C12-123478-HxCDD	33	32 - 141
13C12-123678-HxCDD	33	28 - 130
13C12-123789-HxCDD	35	28 - 130
13C12-1234678-HpCDD	34	23 - 140
13C12-OCDD	38	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	51	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	36	26 - 152

*-This limit was used in the evaluation of the final result



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Page 2 of 2

Sample Description: Frac Tank 2-Bldg 7 Grab Water Sample
Riverside Avenue

LLI Sample # WW 6519692
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 11:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

FT2RA SDG#: RAK02-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
Labeled Compounds						
	%Rec	Windows				
13C12-123678-HxCDF	35	26 - 123				
13C12-234678-HxCDF	39	28 - 136				
13C12-123789-HxCDF	45	29 - 147				
13C12-1234678-HpCDF	33	28 - 143				
13C12-1234789-HpCDF	36	26 - 138				
13C12-OCDF	35	17 - 157				

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

J Estimated concentration between Estimated Detection Limit and Minimum Level

E Exceeds calibration range

C Confirmed quantitation on secondary GC column

Q EMPC - Estimated Maximum Possible Concentration

F Interference is present

S Saturation of detection signal

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	Dioxins/Furans in Water - HRMS	SW-846 8290A	1	12026001	01/27/2012 19:36	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A	3	12026001	01/26/2012 09:00	Deborah M Zimmerman	1

*-This limit was used in the evaluation of the final result



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Page 1 of 2

Sample Description: Frac Tank Bldg 15 Composite Water Sample
Riverside Avenue

LLI Sample # WW 6519693
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

F15RA SDG#: RAK02-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	pg/l	pg/l	pg/l	
10915	2378-TCDD	1746-01-6	< 20.0	20.0	4.00	1
10915	12378-PeCDD	40321-76-4	< 100	100	3.51	1
10915	123478-HxCDD	39227-28-6	< 100	100	4.28	1
10915	123678-HxCDD	57653-85-7	< 100	100	4.54	1
10915	123789-HxCDD	19408-74-3	< 100	100	4.35	1
10915	1234678-HpCDD	35822-46-9	< 100	100	8.04	1
10915	OCDD	3268-87-9	< 200	200	3.03	1
10915	2378-TCDF	51207-31-9	< 20.0	20.0	3.20	1
10915	12378-PeCDF	57117-41-6	< 100	100	2.17	1
10915	23478-PeCDF	57117-31-4	< 100	100	2.04	1
10915	123478-HxCDF	70648-26-9	< 100	100	2.67	1
10915	123678-HxCDF	57117-44-9	< 100	100	2.34	1
10915	123789-HxCDF	72918-21-9	< 100	100	2.83	1
10915	234678-HxCDF	60851-34-5	< 100	100	2.31	1
10915	1234678-HpCDF	67562-39-4	< 100	100	2.18	1
10915	1234789-HpCDF	55673-89-7	< 100	100	2.95	1
10915	OCDF	39001-02-0	< 200	200	3.19	1

Reporting limits were raised due to interference from the sample matrix.

Total Homologues		SW-846 8290A	pg/l	pg/l	pg/l	
10915	Total TCDD	41903-57-5	< 20.0	20.0	4.00	1
10915	Total PeCDD	35088-22-9	< 100	100	3.51	1
10915	Total HxCDD	34465-46-8	< 100	100	4.39	1
10915	Total HpCDD	37871-00-4	< 100	100	8.04	1
10915	Total PCDD	n.a.	309	BQ		1
10915	Total TCDF	55722-27-5	< 20.0	20.0	3.20	1
10915	Total PeCDF	30402-15-4	< 100	100	2.10	1
10915	Total HxCDF	55684-94-1	120	QB	2.52	1
10915	Total HpCDF	38998-75-3	< 100	100	2.52	1
10915	Total PCDF	n.a.	311	BQ		1
10915	Total PCDD/PCDF	n.a.	620	BQ		1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

*-This limit was used in the evaluation of the final result

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Page 2 of 2

Sample Description: Frac Tank Bldg 15 Composite Water Sample
Riverside Avenue**LLI Sample #** WW 6519693
LLI Group # 1284638
Account # 09694**Project Name:** Riverside Avenue**Collected:** 01/10/2012 16:00 by KSKEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318**Submitted:** 01/11/2012 19:05**Reported:** 02/01/2012 13:19**F15RA** SDG#: RAK02-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received MRL*	As Received EDL	Dilution Factor
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Dioxins/Furans Data Qualifiers:*B Detected in Method Blank**U Undetected**J Estimated concentration between Estimated Detection Limit and Minimum Level**E Exceeds calibration range**C Confirmed quantitation on secondary GC column**Q EMPC - Estimated Maximum Possible Concentration**F Interference is present**S Saturation of detection signal***General Sample Comments**

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	Dioxins/Furans in Water - HRMS	SW-846 8290A	1	12026002	01/27/2012 21:29	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	SW-846 8290A	3	12026002	01/26/2012 06:40	Ginelle L Haines	1

*This limit was used in the evaluation of the final result



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Page 1 of 4

Sample Description: 1st floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519694
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 15:05 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

1B7RA SDG#: RAK02-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 5.0	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*-This limit was used in the evaluation of the final result

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Page 2 of 4

Sample Description: 1st floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue**LLI Sample #** SW 6519694
LLI Group # 1284638
Account # 09694**Project Name:** Riverside Avenue**Collected:** 01/10/2012 15:05 by KSKEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318**Submitted:** 01/11/2012 19:05**Reported:** 02/01/2012 13:19

1B7RA SDG#: RAK02-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	15.6	10.5	1.50	1
11031	12378-PeCDD	40321-76-4	69.6 B	52.6	1.51	1
11031	123478-HxCDD	39227-28-6	53.3 B	52.6	1.38	1
11031	123678-HxCDD	57653-85-7	633 B	52.6	1.42	1
11031	123789-HxCDD	19408-74-3	141 B	52.6	1.42	1
11031	1234678-HpCDD	35822-46-9	26,600 EB	52.6	4.42	1
11031	OCDD	3268-87-9	1,420,000 EB	105	4.19	1
11031	2378-TCDF	51207-31-9	21.8 C	10.5	1.34	1
11031	12378-PeCDF	57117-41-6	< 52.6	52.6	0.673	1
11031	23478-PeCDF	57117-31-4	< 52.6	52.6	0.616	1
11031	123478-HxCDF	70648-26-9	< 52.6	52.6	0.953	1
11031	123678-HxCDF	57117-44-9	< 52.6	52.6	0.940	1
11031	123789-HxCDF	72918-21-9	< 52.6	52.6	1.00	1
11031	234678-HxCDF	60851-34-5	89.5 B	52.6	0.882	1
11031	1234678-HpCDF	67562-39-4	1,750 B	52.6	1.27	1
11031	1234789-HpCDF	55673-89-7	220 B	52.6	1.57	1
11031	OCDF	39001-02-0	6,210 B	105	0.914	1

Reporting limits were raised due to interference from the sample matrix.

TCDF is being reported from the primary analysis.

A confirmation analysis was performed and TCDF failed retention time criteria.

The retention time failure was due to recent changes in chromatographic conditions and does not represent a legitimate failure to confirm.

Total Homologues		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	Total TCDD	41903-57-5	514 QB	10.5	1.50	1
11031	Total PeCDD	35088-22-9	577 QB	52.6	1.51	1
11031	Total HxCDD	34465-46-8	2,610 QB	52.6	1.41	1
11031	Total HpCDD	37871-00-4	50,500 QB	52.6	4.42	1
11031	Total TCDF	55722-27-5	339 QB	10.5	1.34	1
11031	Total PeCDF	30402-15-4	361 QB	52.6	0.643	1
11031	Total HxCDF	55684-94-1	1,660 QB	52.6	0.942	1
11031	Total HpCDF	38998-75-3	7,550 QB	52.6	1.41	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147

*-This limit was used in the evaluation of the final result



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Page 3 of 4

Sample Description: 1st floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519694
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 15:05 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

1B7RA SDG#: RAK02-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Labeled Compounds						
	%Rec	Windows				
13C12-1234678-HpCDF	75	28 - 143				
13C12-1234789-HpCDF	73	26 - 138				
13C12-OCDF	72	17 - 157				

Dioxins/Furans Data Qualifiers:

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

*-This limit was used in the evaluation of the final result



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Page 4 of 4

Sample Description: 1st floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519694
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 15:05 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

1B7RA SDG#: RAK02-04

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dickins/Furans in Solids-HRMS	SW-846 8290A	1	12018002	01/19/2012 19:09	Joseph D Anderson	1
11030	Dickins/Furans in Solids - Sox	SW-846 8290A	1	12018002	01/18/2012 09:30	Ginelle L Haines	1
00111	Moisture	SM20 2540 G	1	120128200001B	01/12/2012 17:15	Scott W Freisher	1

*-This limit was used in the evaluation of the final result



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Analysis Report

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Page 1 of 4

Sample Description: AST Composite Soil Sample
Riverside Avenue

LLI Sample # SW 6519695
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 10:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

ASTRA SDG#: RAK02-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 22.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*-This limit was used in the evaluation of the final result

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Analysis Report

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Page 2 of 4

Sample Description: AST Composite Soil Sample
Riverside Avenue

LLI Sample # SW 6519695
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 10:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

ASTRA SDG#: RAK02-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	< 12.7	12.7	0.351	1
11031	12378-PeCDD	40321-76-4	< 63.5	63.5	0.489	1
11031	123478-HxCDD	39227-28-6	< 63.5	63.5	0.579	1
11031	123678-HxCDD	57653-85-7	< 63.5	63.5	0.590	1
11031	123789-HxCDD	19408-74-3	< 63.5	63.5	0.547	1
11031	1234678-HpCDD	35822-46-9	< 63.5	63.5	0.367	1
11031	OCDD	3268-87-9	166	127	0.349	1
11031	2378-TCDF	51207-31-9	< 12.7	12.7	0.331	1
11031	12378-PeCDF	57117-41-6	< 63.5	63.5	0.217	1
11031	23478-PeCDF	57117-31-4	< 63.5	63.5	0.202	1
11031	123478-HxCDF	70648-26-9	< 63.5	63.5	0.316	1
11031	123678-HxCDF	57117-44-9	< 63.5	63.5	0.289	1
11031	123789-HxCDF	72918-21-9	< 63.5	63.5	0.285	1
11031	234678-HxCDF	60851-34-5	< 63.5	63.5	0.279	1
11031	1234678-HpCDF	67562-39-4	< 63.5	63.5	0.221	1
11031	1234789-HpCDF	55673-89-7	< 63.5	63.5	0.256	1
11031	OCDF	39001-02-0	< 127	127	0.311	1

Reporting limits were raised due to interference from the sample matrix.

Total Homologues		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	Total TCDD	41903-57-5	< 12.7	12.7	0.351	1
11031	Total PeCDD	35088-22-9	< 63.5	63.5	0.489	1
11031	Total HxCDD	34465-46-8	71.6 QB	63.5	0.572	1
11031	Total HpCDD	37871-00-4	73.5 QB	63.5	0.367	1
11031	Total TCDF	55722-27-5	19.6 QB	12.7	0.331	1
11031	Total PeCDF	30402-15-4	< 63.5	63.5	0.209	1
11031	Total HxCDF	55684-94-1	< 63.5	63.5	0.292	1
11031	Total HpCDF	38998-75-3	< 63.5	63.5	0.237	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	76	17 - 157

*-This limit was used in the evaluation of the final result



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Page 3 of 4

Sample Description: AST Composite Soil Sample
Riverside Avenue

LLI Sample # SW 6519695
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 10:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

ASTRA SDG#: RAK02-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
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Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present
S Saturation of detection signal

*-This limit was used in the evaluation of the final result



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Page 4 of 4

Sample Description: AST Composite Soil Sample
Riverside Avenue

LLI Sample # SW 6519695
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 10:00 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

ASTRA SDG#: RAK02-05

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dickins/Furans in Solids-HRMS	SW-846 8290A	1	12018002	01/20/2012 09:32	Joseph D Anderson	1
11030	Dickins/Furans in Solids - Sox	SW-846 8290A	1	12018002	01/18/2012 09:30	Ginelle L Haines	1
00111	Moisture	SM20 2540 G	1	12012820001B	01/12/2012 17:15	Scott W Freisher	1

*-This limit was used in the evaluation of the final result

ALCD-PUBCOM_0007646



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Analysis Report

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Page 1 of 4

Sample Description: 3rd floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519696
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 14:45 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

3B7RA SDG#: RAK02-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 17.0	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*-This limit was used in the evaluation of the final result

ALCD-PUBCOM_0007647

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Page 2 of 4

Sample Description: 3rd floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519696
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 14:45 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

3B7RA SDG#: RAK02-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	171	12.0	2.05	1
11031	12378-PeCDD	40321-76-4	1,180	B 60.2	2.87	1
11031	123478-HxCDD	39227-28-6	1,050	B 60.2	1.81	1
11031	123678-HxCDD	57653-85-7	2,990	B 60.2	1.75	1
11031	123789-HxCDD	19408-74-3	2,850	B 60.2	1.70	1
11031	1234678-HpCDD	35822-46-9	24,600	60.2	2.54	1
			EB			
11031	OCDD	3268-87-9	196,000	120	1.84	1
			EB			
11031	2378-TCDF	51207-31-9	64.0	C 12.0	2.02	1
11031	12378-PeCDF	57117-41-6	< 60.2	60.2	0.939	1
11031	23478-PeCDF	57117-31-4	98.1	B 60.2	0.880	1
11031	123478-HxCDF	70648-26-9	286	B 60.2	1.38	1
11031	123678-HxCDF	57117-44-9	89.9	B 60.2	1.33	1
11031	123789-HxCDF	72918-21-9	< 60.2	60.2	1.58	1
11031	234678-HxCDF	60851-34-5	161	B 60.2	1.37	1
11031	1234678-HpCDF	67562-39-4	612	B 60.2	1.10	1
11031	1234789-HpCDF	55673-89-7	81.9	B 60.2	1.44	1
11031	OCDF	39001-02-0	1,790	B 120	0.600	1

Reporting limits were raised due to interference from the sample matrix.

Total Homologues		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	Total TCDD	41903-57-5	3,650	QB 12.0	2.05	1
11031	Total PeCDD	36088-22-9	16,600	60.2	2.87	1
			QB			
11031	Total HxCDD	34465-46-8	26,600	60.2	1.75	1
			QB			
11031	Total HpCDD	37871-00-4	43,900	B 60.2	2.54	1
11031	Total TCDF	55722-27-5	2,610	QB 12.0	2.02	1
11031	Total PeCDF	30402-15-4	6,780	QB 60.2	0.909	1
11031	Total HxCDF	55684-94-1	1,600	QB 60.2	1.41	1
11031	Total HpCDF	38998-75-3	1,540	B 60.2	1.25	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	70	26 - 138

*This limit was used in the evaluation of the final result



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Analysis Report

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Page 3 of 4

Sample Description: 3rd floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519696
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 14:45 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

3B7RA SDG#: RAK02-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Labeled Compounds						
13C12-OCDF	%Rec	Windows				
	65	17 - 157				

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present
- S Saturation of detection signal

*-This limit was used in the evaluation of the final result



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Page 4 of 4

Sample Description: 3rd floor Bldg 7 Floor Sweeps Composite Soil
Riverside Avenue

LLI Sample # SW 6519696
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 14:45 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

3B7RA SDG#: RAK02-06

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dickins/Furans in Solids-HRMS	SW-846 8290A	1	12018002	01/19/2012 21:03	Joseph D Anderson	1
11030	Dickins/Furans in Solids - Sox	SW-846 8290A	1	12018002	01/18/2012 09:30	Ginelle L Haines	1
00111	Moisture	SM20 2540 G	1	120128200001B	01/12/2012 17:15	Scott W Freisher	1

*-This limit was used in the evaluation of the final result

ALCD-PUBCOM_0007650



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Analysis Report

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Page 1 of 4

Sample Description: UST soil Composite Sample
Riverside Avenue

LLI Sample # SW 6519697
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:35 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

USTRA SDG#: RAK02-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 8.5	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*-This limit was used in the evaluation of the final result

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Analysis Report

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Page 2 of 4

Sample Description: UST soil Composite Sample
Riverside Avenue**LLI Sample #** SW 6519697
LLI Group # 1284638
Account # 09694**Project Name:** Riverside Avenue**Collected:** 01/10/2012 16:35 by KS

KEMRON Environmental Services

1359A Ellsworth Industrial Blv

Atlanta GA 30318

Submitted: 01/11/2012 19:05**Reported:** 02/01/2012 13:19**USTRA** SDG#: RAK02-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	< 10.9	10.9	0.401	1
11031	12378-PeCDD	40321-76-4	< 54.6	54.6	0.571	1
11031	123478-HxCDD	39227-28-6	< 54.6	54.6	0.756	1
11031	123678-HxCDD	57653-85-7	< 54.6	54.6	0.776	1
11031	123789-HxCDD	19408-74-3	< 54.6	54.6	0.748	1
11031	1234678-HpCDD	35822-46-9	186	54.6	0.733	1
11031	OCDD	3268-87-9	2,740	B 109	1.17	1
11650	2378-TCDF-Conf	51207-31-9	< 10.9	10.9	1.24	1
11031	12378-PeCDF	57117-41-6	< 54.6	54.6	0.472	1
11031	23478-PeCDF	57117-31-4	< 54.6	54.6	0.434	1
11031	123478-HxCDF	70648-26-9	< 54.6	54.6	0.532	1
11031	123678-HxCDF	57117-44-9	< 54.6	54.6	0.546	1
11031	123789-HxCDF	72918-21-9	< 54.6	54.6	0.600	1
11031	234678-HxCDF	60851-34-5	< 54.6	54.6	0.516	1
11031	1234678-HpCDF	67562-39-4	89.0	B 54.6	0.595	1
11031	1234789-HpCDF	55673-89-7	< 54.6	54.6	0.728	1
11031	OCDF	39001-02-0	139	B 109	0.490	1

Reporting limits were raised due to interference from the sample matrix.

Total Homologues		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	Total TCDD	41903-57-5	18.7	QB 10.9	0.401	1
11031	Total PeCDD	35088-22-9	< 54.6	54.6	0.571	1
11031	Total HxCDD	34465-46-8	165	QB 54.6	0.760	1
11031	Total HpCDD	37871-00-4	384	B 54.6	0.733	1
11031	Total TCDF	55722-27-5	201	QB 10.9	1.21	1
11031	Total PeCDF	30402-15-4	120	QB 54.6	0.452	1
11031	Total HxCDF	55684-94-1	137	QB 54.6	0.547	1
11031	Total HpCDF	38998-75-3	215	B 54.6	0.656	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	85	24 - 169
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	68	17 - 157

*This limit was used in the evaluation of the final result



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Page 3 of 4

Sample Description: UST soil Composite Sample
Riverside Avenue

LLI Sample # SW 6519697
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:35 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

USTRA SDG#: RAK02-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
------------	---------------	------------	---------------	-------------	------------	--------------------

Dioxins/Furans Data Qualifiers:

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present
- S Saturation of detection signal

*-This limit was used in the evaluation of the final result



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Page 4 of 4

Sample Description: UST soil Composite Sample
Riverside Avenue

LLI Sample # SW 6519697
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Project Name: Riverside Avenue

Collected: 01/10/2012 16:35 by KS

KEMRON Environmental Services
1359A Ellsworth Industrial Blv
Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

USTRA SDG#: RAK02-07

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11650	Dioxins/Furans in Solids-Conf	SW-846 8290A	1	12018002	01/20/2012 23:04	Joseph D Anderson	1
11031	Dioxins/Furans in Solids-HRMS	SW-846 8290A	1	12018002	01/19/2012 21:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A	1	12018002	01/18/2012 09:30	Ginelle L Haines	1
00111	Moisture	SM20 2540 G	1	12012820001B	01/12/2012 17:15	Scott W Freisher	1

*-This limit was used in the evaluation of the final result

ALCD-PUBCOM_0007654



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Page 1 of 4

Sample Description: Bldg 12-5th floor pigment/floor sweep Composite
Soil Sample
Riverside Avenue

LLI Sample # SW 6519698
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:40 by KS

KEMRON Environmental Services

1359A Ellsworth Industrial Blv

Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

125RA SDG#: RAK02-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Limit of Quantitation*	Dry Method Detection Limit	Dilution Factor
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 5.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*-This limit was used in the evaluation of the final result

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Analysis Report

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Page 2 of 4

Sample Description: Bldg 12-5th floor pigment/floor sweep Composite
Soil Sample
Riverside Avenue

LLI Sample # SW 6519698
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:40 by KS

KEMRON Environmental Services

1359A Ellsworth Industrial Blv

Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

125RA SDG#: RAK02-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
Dioxins/Furans		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	< 10.5	10.5	2.76	1
11031	12378-PeCDD	40321-76-4	< 52.7	52.7	1.75	1
11031	123478-HxCDD	39227-28-6	< 52.7	52.7	1.44	1
11031	123678-HxCDD	57653-85-7	236	BQ 52.7	1.53	1
11031	123789-HxCDD	19408-74-3	98.8	B 52.7	1.35	1
11031	1234678-HpCDD	35822-46-9	992	B 52.7	1.22	1
11031	OCDD	3268-87-9	3,200	B 105	2.19	1
11650	2378-TCDF-Conf	51207-31-9	48.5	C 10.5	4.49	1
11031	12378-PeCDF	57117-41-6	72.5	B 52.7	1.14	1
11031	23478-PeCDF	57117-31-4	186	B 52.7	0.987	1
11031	123478-HxCDF	70648-26-9	139	B 52.7	1.26	1
11031	123678-HxCDF	57117-44-9	157	B 52.7	1.27	1
11031	123789-HxCDF	72918-21-9	69.6	B 52.7	1.40	1
11031	234678-HxCDF	60851-34-5	279	B 52.7	1.13	1
11031	1234678-HpCDF	67562-39-4	701	B 52.7	1.93	1
11031	1234789-HpCDF	55673-89-7	78.4	B 52.7	2.60	1
11031	OCDF	39001-02-0	404	B 105	3.33	1

Reporting limits were raised due to interference from the sample matrix.

Total Homologues		SW-846 8290A	ng/kg	ng/kg	ng/kg	
11031	Total TCDD	41903-57-5	1,680	QB 10.5	2.76	1
11031	Total PeCDD	36088-22-9	2,160	QB 52.7	1.75	1
11031	Total HxCDD	34465-46-8	2,720	QB 52.7	1.44	1
11031	Total HpCDD	37871-00-4	1,990	B 52.7	1.22	1
11031	Total TCDF	55722-27-5	3,620	B 10.5	2.37	1
11031	Total PeCDF	30402-15-4	2,240	QB 52.7	1.06	1
11031	Total HxCDF	55684-94-1	1,710	QB 52.7	1.26	1
11031	Total HpCDF	38998-75-3	1,220	QB 52.7	2.23	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-2378-TCDF-Conf	70	24 - 169
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	62	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	64	17 - 157
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	58	17 - 157

*This limit was used in the evaluation of the final result



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Analysis Report

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Page 3 of 4

Sample Description: Bldg 12-5th floor pigment/floor sweep Composite
Soil Sample
Riverside Avenue

LLI Sample # SW 6519698
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:40 by KS

KEMRON Environmental Services

1359A Ellsworth Industrial Blv

Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

125RA SDG#: RAK02-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry MRL*	Dry EDL	Dilution Factor
---------	---------------	------------	------------	----------	---------	-----------------

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank

U Undetected

J Estimated concentration between Estimated Detection Limit and Minimum Level

E Exceeds calibration range

C Confirmed quantitation on secondary GC column

Q EMPC - Estimated Maximum Possible Concentration

F Interference is present

S Saturation of detection signal

*-This limit was used in the evaluation of the final result



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Page 4 of 4

Sample Description: Bldg 12-5th floor pigment/floor sweep Composite
Soil Sample
Riverside Avenue

LLI Sample # SW 6519698
LLI Group # 1284638
Account # 09694

Project Name: Riverside Avenue

Collected: 01/10/2012 16:40 by KS

KEMRON Environmental Services

1359A Ellsworth Industrial Blv

Atlanta GA 30318

Submitted: 01/11/2012 19:05

Reported: 02/01/2012 13:19

125RA SDG#: RAK02-08*

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11650	Dioxins/Furans in Solids-Conf	SW-846 8290A	1	12018002	01/21/2012 00:04	Joseph D Anderson	1
11021	Dioxins/Furans in Solids-HRMS	SW-846 8290A	1	12018002	01/19/2012 22:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A	1	12018002	01/18/2012 09:30	Ginelle L Haines	1
00111	Moisture	SM20 2540 G	1	12012820001B	01/12/2012 17:15	Scott W Freisher	1

*-This limit was used in the evaluation of the final result

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Page 1 of 4

Quality Control Summary

Client Name: KEMRON Environmental Services
Reported: 02/01/12 at 01:19 PM

Group Number: 1284638

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank LOQ**	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 120128200013	Sample number(s): 6519694-6519698				100		99-101		
Moisture									

Analysis Name	Blank Result	Blank MRL**	Blank EDL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 12018002	Sample number(s): 6519694-6519698								
2378-TCDD	< 1.00	1.00	0.0174	ng/kg	98		67-158		
12378-PeCDD	< 5.00	5.00	0.0198	ng/kg	96		70-142		
123478-HxCDD	< 5.00	5.00	0.0180	ng/kg	92		70-164		
123678-HxCDD	< 5.00	5.00	0.0186	ng/kg	89		76-134		
123789-HxCDD	< 5.00	5.00	0.0181	ng/kg	99		64-162		
1234678-HpCDD	< 5.00	5.00	0.0261	ng/kg	94		70-140		
OCDD	< 10.0	10.0	0.0195	ng/kg	89		78-144		
2378-TCDF	< 1.00	1.00	0.0216	ng/kg	97		75-158		
2378-TCDF-Conf	< 1.00	1.00	0.0351	ng/kg	97		75-158		
12378-PeCDF	< 5.00	5.00	0.0126	ng/kg	99		80-134		
23478-PeCDF	< 5.00	5.00	0.0125	ng/kg	93		68-160		
123478-HxCDF	< 5.00	5.00	0.0133	ng/kg	94		72-134		
123678-HxCDF	< 5.00	5.00	0.0129	ng/kg	94		84-130		
123789-HxCDF	< 5.00	5.00	0.0135	ng/kg	95		78-130		
234678-HxCDF	< 5.00	5.00	0.0131	ng/kg	91		70-156		
1234678-HpCDF	< 5.00	5.00	0.00990	ng/kg	86		82-122		
1234789-HpCDF	< 5.00	5.00	0.0160	ng/kg	90		78-138		
OCDF	< 10.0	10.0	0.0319	ng/kg	90		63-170		

Batch number: 12026001	Sample number(s): 6519692								
2378-TCDD	< 200	200.	27.6	pg/l	98		67-158		
12378-PeCDD	< 1,000	1,000.	31.0	pg/l	96		70-142		
123478-HxCDD	< 1,000	1,000.	17.6	pg/l	91		70-164		
123678-HxCDD	< 1,000	1,000.	18.3	pg/l	90		76-134		
123789-HxCDD	< 1,000	1,000.	16.7	pg/l	95		64-162		
1234678-HpCDD	< 1,000	1,000.	24.8	pg/l	99		70-140		
OCDD	< 2,000	2,000.	20.6	pg/l	93		78-144		
2378-TCDF	< 200	200.	27.6	pg/l	82		75-158		
12378-PeCDF	< 1,000	1,000.	21.2	pg/l	92		80-134		
23478-PeCDF	< 1,000	1,000.	19.7	pg/l	84		68-160		
123478-HxCDF	< 1,000	1,000.	18.1	pg/l	90		72-134		
123678-HxCDF	< 1,000	1,000.	16.5	pg/l	89		84-130		
123789-HxCDF	< 1,000	1,000.	12.8	pg/l	93		78-130		
234678-HxCDF	< 1,000	1,000.	15.3	pg/l	88		70-156		
1234678-HpCDF	< 1,000	1,000.	11.6	pg/l	85		82-122		
1234789-HpCDF	< 1,000	1,000.	12.3	pg/l	92		78-138		
OCDF	< 2,000	2,000.	21.1	pg/l	90		63-170		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

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Page 2 of 4

Quality Control Summary

Client Name: KEMRON Environmental Services
Reported: 02/01/12 at 01:19 PM

Group Number: 1284638

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MRL**</u>	<u>Blank EDL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12026002	Sample number(s): 6519691, 6519693								
2378-TCDD	< 2.00	2.00	0.389	pg/l	99		67-158		
12378-PeCDD	< 10.0	10.0	0.530	pg/l	99		70-142		
123478-HxCDD	< 10.0	10.0	0.375	pg/l	96		70-164		
123678-HxCDD	< 10.0	10.0	0.391	pg/l	96		76-134		
123789-HxCDD	< 10.0	10.0	0.358	pg/l	105		64-162		
1234678-HpCDD	< 10.0	10.0	0.526	pg/l	110		70-140		
OCDD	< 20.0	20.0	0.480	pg/l	112		78-144		
2378-TCDF	< 2.00	2.00	0.365	pg/l	83		75-158		
12378-PeCDF	< 10.0	10.0	0.316	pg/l	93		80-134		
23478-PeCDF	< 10.0	10.0	0.264	pg/l	87		68-160		
123478-HxCDF	< 10.0	10.0	0.301	pg/l	99		72-134		
123678-HxCDF	< 10.0	10.0	0.292	pg/l	99		84-130		
123789-HxCDF	< 10.0	10.0	0.284	pg/l	100		78-130		
234678-HxCDF	< 10.0	10.0	0.264	pg/l	92		70-156		
1234678-HpCDF	< 10.0	10.0	0.246	pg/l	100		82-122		
1234789-HpCDF	< 10.0	10.0	0.330	pg/l	105		78-138		
OCDF	< 20.0	20.0	0.710	pg/l	108		63-170		
Batch number: 12018002	Sample number(s): 6519694-6519698								
Total TCDD	< 1.00	1.00	0.0174	ng/kg					
Total PeCDD	< 5.00	5.00	0.0198	ng/kg					
Total HxCDD	< 5.00	5.00	0.0182	ng/kg					
Total HpCDD	< 5.00	5.00	0.0261	ng/kg					
Total TCDF	< 1.00	1.00	0.0216	ng/kg					
Total PeCDF	< 5.00	5.00	0.0125	ng/kg					
Total HxCDF	< 5.00	5.00	0.0132	ng/kg					
Total HpCDF	< 5.00	5.00	0.0123	ng/kg					
Batch number: 12026001	Sample number(s): 6519692								
Total TCDD	< 200	200.	27.6	pg/l					
Total PeCDD	< 1,000	1,000.	31.0	pg/l					
Total HxCDD	< 1,000	1,000.	17.5	pg/l					
Total HpCDD	< 1,000	1,000.	24.8	pg/l					
Total PCDD	488			pg/l					
Total TCDF	< 200	200.	27.6	pg/l					
Total PeCDF	< 1,000	1,000.	20.4	pg/l					
Total HxCDF	< 1,000	1,000.	15.4	pg/l					
Total HpCDF	< 1,000	1,000.	11.9	pg/l					
Total PCDF	167			pg/l					
Total PCDD/PCDF	655			pg/l					
Batch number: 12026002	Sample number(s): 6519691, 6519693								
Total TCDD	< 2.00	2.00	0.389	pg/l					
Total PeCDD	< 10.0	10.0	0.530	pg/l					
Total HxCDD	< 10.0	10.0	0.375	pg/l					
Total HpCDD	< 10.0	10.0	0.526	pg/l					
Total PCDD	12.7			pg/l					
Total TCDF	< 2.00	2.00	0.365	pg/l					
Total PeCDF	< 10.0	10.0	0.287	pg/l					
Total HxCDF	< 10.0	10.0	0.284	pg/l					
Total HpCDF	< 10.0	10.0	0.283	pg/l					
Total PCDF	5.22			pg/l					
Total PCDD/PCDF	17.9			pg/l					

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.



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Page 3 of 4

Quality Control Summary

Client Name: KEMRON Environmental Services
Reported: 02/01/12 at 01:19 PM

Group Number: 1284638

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 12012820001B Moisture									
				Sample number(s): 6519694-6519698		BKG: P518573 17.1	17.3	1	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-HRMS

Batch number: 12018002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6519694	78	89	76	74	76	78
6519695	78	90	72	74	78	83
6519696	78	90	76	76	74	70
6519697	80	93	84	82	81	80
6519698	73	82	71	65	70	65
Blank	86	91	83	88	84	91
OPR	72	83	77	82	78	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6519694	75	73	72	83	71	72
6519695	79	80	76	83	73	71
6519696	82	70	65	85	69	69
6519697	81	77	68	87	75	73
6519698	76	66	58	77	65	62
Blank	105	76	70	89	85	82
OPR	97	72	71	81	77	76
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6519694	73	74	70	82	89	
6519695	76	78	73	84	90	
6519696	72	73	73	81	96	
6519697	78	76	71		93	85
6519698	69	67	64		75	70
Blank	85	86	81	78	98	83
OPR	76	81	84	73	88	73
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: Dioxins/Furans in Water - HRMS

Batch number: 12026001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
--	-----------------	-------------------	--------------------	--------------------	--------------------	--------------------

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.



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Analysis Report

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Page 4 of 4

Quality Control Summary

Client Name: KEMRON Environmental Services
Reported: 02/01/12 at 01:19 PM

Group Number: 1284638

Surrogate Quality Control

6519692	57	54	36	35	39	45
Blank	86	76	70	71	76	109
OPR	66	65	67	65	68	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6519692	33	36	35	46	33	33
Blank	89	94	92	85	90	90
OPR	65	80	74	70	73	73
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6519692	35	34	38	62	51	
Blank	94	101	82	74	74	
OPR	75	84	80	56	67	56
Limits:	28-130	23-140	17-157	24-169	24-185	10-135
Analysis Name: Dioxins/Furans in Water - HRMS						
Batch number: 12026002						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6519691	74	77	60	63	63	65
6519693	63	74	63	67	65	66
Blank	50	47	35	34	38	41
OPR	49	45	38	39	41	48
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6519691	76	65	58	79	61	60
6519693	80	68	64	74	64	66
Blank	37	34	26	41	35	34
OPR	45	42	38	49	45	45
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6519691	69	70	65	66	82	
6519693	68	75	74	61	76	
Blank	36	35	32	51	44	
OPR	46	47	43	43	46	43
Limits:	28-130	23-140	17-157	24-169	24-185	10-135

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories use only Acct. #: 9694

Group #: 1284638 Sample #: 6519691-98

[illegible]

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Lancaster
Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<CRDL$, but $\geq IDL$
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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